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NOTICE OF ALLOWANCE AND FEE(S) DUE

22879 7590 04/18/2008
HEWLETT PACKARD COMPANY
P O BOX 272400, 3404 E. HARMONY ROAD
INTELL ECTITAL PROPERTY ADMINISTRATION

FORT COLLINS, CO 80527-2400

EXAMINER
THOMPSON, JAMES A

PAPER NUMBER

ART UNIT

DATE MAILED: 04/18/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/688 610	10/13/2000	David H. Donovan	609900057126	9946

TITLE OF INVENTION: APPARATUS AND METHOD FOR MITIGATING COLORANT-DEPOSITION ERRORS IN INCREMENTAL PRINTING

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	07/18/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance nerwise in Block 1, by	orders and notification of (a) specifying a new corre	maintenance fees v spondence address;	vill be and/o	mailed to the current r (b) indicating a sepa	corresp trate "F	ondence address as EE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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FORT COLLIN	S, CO 80527-2400							(Depositor's name)
			_					(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTC	DRNEY DOCKET NO.	CON	FIRMATION NO.
09/688,610	10/13/2000		David H. Donovan			60990005Z126		9946
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	TING COLORANT-DEPO	PREV. PAID ISSU		T TOTAL FEE(S) DUE	ING	DATE DUE
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nonprovisional	NO	\$1440	\$0	30	\$0 \$1440			07/18/2008
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THOMPSON	·	2625	358-001900 2. For printing on the					
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address (or Change of Correspondence Address form PTOVSB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTOVSB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to or agents OR, alternati	of a single firm (having as a member a price) or agent) and the names of up to attent attorneys or agents. If no name is				
	less an assignee is ident h in 37 CFR 3.11. Comp		N THE PATENT (print or ty ee data will appear on the p OT a substitute for filing an (B) RESIDENCE: (CIT	oatent. If an assign assignment.			ocumen	t has been filed for
Please check the appropr	iate assignee category or	categories (will not be	printed on the patent):	Individual 🗖 Co	orporat	ion or other private gre	oup enti	ty 🗖 Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Dep	rd. Form PTO-2038 y authorized to cha	is att	ached. required fee(s), any de	ficiency	
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accep tes Patent and Tradema	ted from anyone other than irk Office.	the applicant; a regi	stered	attorney or agent; or the	ne assign	nee or other party in
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION 1		
09/688,610	10/13/2000	David H. Donovan	60990005Z126 9946		
22879	7590 04/18/2008		EXAMINER		
HEWLETT PAGE	CKARD COMPANY	THOMPSON, JAMES A			
P O BOX 272400, 3404 E. HARMONY ROAD			ART UNIT PAPER NUMBER		
INTELLECTUAL	. PROPERTY ADMIN	2625			

TELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400

DATE MAILED: 04/18/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 761 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 761 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	_
09/688,610	DONOVAN ET AL.	
Examiner	Art Unit	٦
JAMES A. THOMPSON	2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 27 February 2008.
- The allowed claim(s) is/are 1,2,5-28,34,35 and 37-42.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) I hereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 2/27/08
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. ☐ Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date ______.
- 7. Examiner's Amendment/Comment
- 8. \boxtimes Examiner's Statement of Reasons for Allowance
- 9. Other _____.

/Edward L Coles/

Application/Control Number: 09/688,610

Art Unit: 2625

DETAILED ACTION

Response to Arguments

 Applicant's arguments, see pages 19-21, filed 27 February 2008, with respect to the rejections of claims 3-4 under 35 U.S.C. § 112, second paragraph and claim 36 under 35 U.S.C § 103(a) have been fully considered and are persuasive. Therefore, the rejections have been withdrawn. Examiner notes that claims 3-4 and 36 have been cancelled. The application is therefore in condition for allowance for reasons already of record, which are substantially repeated below. Furthermore, the IDS submitted has been considered and an initialed and signed copy is included with the present action.

Allowable Subject Matter

Claims 1-2, 5-28, 34-35 and 37-42 are allowed.

The following is an examiner's statement of reasons for allowance:

Independent claims 1, 9, 25, 34, 35, 37, 38 and 40 each have the features: (1) measurement of variations in printing intensity among individual printing elements; (2) compensation for such variations, based upon matrix modification that is performed in a rendition stage; and (3) feedback that enables the compensation to be different for different print densities within a print. Some of the independent claims recite "introducing continuous control enabling compensation that is different for different print densities" (or similar language), which corresponds to the feedback feature. Examiner has not found this particular arrangement of printing intensity variation measurement, compensation, and feedback in the prior art. Koike does not teach the recited matrix modification or the recited feedback. There is no negative feedback or continuous control enabling compensation, as required by the above mentioned independent claims.

The closest prior art discovered is Takagi (USPN 5,384,587), which measures and compensates for printing intensity variations among individual printing elements. However, Takagi does not modify any matrix or numerical tabulation to perform the compensation, nor does Takagi use the recited feedback mechanisms. Lee (USPN 6,412,903 B1) and Haflinger (USPN 6,672,697 B2) are closer art than Takagi in that they teach most, if not all, of the elements of the independent claims. However, neither Lee nor Haflinger qualify as prior art references.

Art Unit: 2625

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES A. THOMPSON whose telephone number is (571)272-7441. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edward L. Coles/ Supervisory Patent Examiner, Art Unit 2625 /J. A. T./ Examiner, Art Unit 2625

27 March 2008